APPENDIX N

TECHNICAL REPORT ON

STUDY SCHEDULES

BP CHERRY POINT COGENERATION PROJECT

(REVISED)

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~~Submitted by:~~

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1. STUDY SCHEDULES

All environmental studies required to finalize this Application for Site Certification are complete, with the exception of a ~~cultural resources survey and a~~ geotechnical investigation of the Cogeneration Project site as described below.

~~1.1 CULTURAL RESOURCES SURVEY~~

~~BP has contracted with the Lummi Tribe to conduct an archaeological investigation on areas that would potentially be affected by construction of the Cogeneration Project. These areas include the Cogeneration Plant site, laydown areas, access roads, power transmission line tower locations, and wetland mitigation areas north of Grandview Road. Based on historic record searches, there are no known or recorded cultural resources or artifacts within the project site.~~

~~To date, the archaeological reconnaissance has been limited to shovel probe investigations along both of the access roads leading to the transmission line corridor, as well as within the vicinity of the transmission tower locations. Representatives from the Lummi tribe and BOAS Archaeological Consultants Ltd. (BOAS) monitored excavation activities during development of the two access roads and tower pads in 2001.~~

~~The archaeological investigation and monitoring conducted to date revealed no significant cultural resources. However, additional shovel probe investigations will be undertaken within the vicinity of the Cogeneration Project site, laydown areas, as well as areas proposed for wetland mitigation once the final location of these areas is known. If significant cultural resources are located during those investigations, recommendations will be provided for appropriate mitigative actions.~~

~~Once the final archaeological assessment report is completed, BP will forward a copy of the report to EFSEC as a separate report.~~

1.~~3~~ 1 GEOTECHNICAL INVESTIGATION

During detailed design of the Cogeneration Project, BP will commission a geotechnical investigation to provide input into the design and configuration of foundations and seismic design requirements for proposed buildings and structures. Based on the review of available geological information and borehole logs conducted to date, the surface geologic conditions at the site are primarily quaternary glacial and nonglacial unconsolidated sediments. These unconsolidated sediments were formed over the last 20,000 years during glacial episodes.

The topography of the proposed Cogeneration Project site is relatively flat and uniform, with existing slopes ranging from only 0.5% to 1%. Because of the flat topography, no significant topographic modifications will be required to prepare the site. No unique physical features are present in the vicinity of the proposed Cogeneration Project site. The site and surrounding areas are typical of areas found throughout western Whatcom County.

Furthermore, there are no known faults within the immediate vicinity of the proposed Cogeneration site, and therefore, risk of potential earthquakes is considered minor. All

of western Washington, including the proposed Cogeneration Project site, and Oregon lie in Seismic Zone 3 of the 1997 Uniform Building Code (UBC). The potential for amplification of earthquake ground shaking depends on the specific soil types at the proposed site.

As indicated above, further geotechnical investigations will be conducted during detailed engineering of the Cogeneration Project to provide input into the foundation and structural design requirements of the project. If the results of the geotechnical investigations confirm the presence of soft soils with low average shear wave velocity beneath the Cogeneration Project site, then additional analysis will be completed to determine any special design features needed to mitigate the potential for damage from seismic events.